

NEW OR OTHERWISE NOTEWORTHY PLANTS FROM MEXICO AND CENTRAL
AMERICA (a)

C. L. Lundell

PIPER MAYANUM Lundell, sp. nov.

Arbor parva, ca. 4 m. alta, 6.5 cm. diam., ramulis et petiolis villosa-tomentosis; folia chartacea, petiolo 3--5.5 cm. longo, alato; lamina chartacea, oblongo-ovata, 23--50 cm. longa, 12.5--24.5 cm. lata, apice abrupte acuminata, acumine obtusa, basi inaequilateraliter auriculata sinu laterali, supra glabra, punctata, subtus minute villosa, pinnatinervi, venis circiter 7 vel 9, subtus villosa-tomentosis; spicae usque ad 43.5 cm. longae, 0.7 cm. crassae, pedunculo usque ad 10.5 cm. longo. -- BRITISH HONDURAS: Stann Creek District, Middlesex, in high ridge forest on hill top, June 12, 1939, Percy H. Gentle 2866 (type in University of Michigan Herbarium). -- P. mayanum closely resembles P. hians Trel. of Costa Rica, a species with much coarser pubescence, subobovate-oblong leaves, open basal leaf sinus, and spikes only 18 cm. long. In P. mayanum the leaf sinus is closed by the strongly overlapping lobes.

TREMA STRIGILLOSA Lundell, sp. nov.

Arbor 8-metralis, 12.5 cm. diam., erecta; ramulis puberulis et parce hirsutis; folia petiolata, petiolo 7.5--10 mm. longo, canaliculato; stipulae ovato-lanceolatae, ca. 3 mm. longae, acuminatae; lamina lanceolata vel oblongo-lanceolata, 7.5--10 cm. longa, 2--3.1 cm. lata, apice caudato-acuminata, basi late rotundata, subaequali, inconspicue crenulato-serrulata, costa et venis supra impressis, subtus elevatis, supra scabrida, subtus minute strigillosa; cymae ♀ usque ad 2 cm. longae, puberulae; calyx breviter stipitatus; sepala puberula, inaequalia, lanceolata, 1--2 mm. longa, ciliata; ovarium glabrum; stigmatum rufo-villoso, lobis divaricatis; fructus ignotus. -- BRITISH HONDURAS: Stann Creek District, Middlesex, alt. about 60 m., in secondary forest; flowers cream colored, faintly perfumed; Nov. 11, 1929, W. A. Schipp 439 (type in the University of Michigan Herbarium). -- The narrowly lanceolate unequal sepals 1 to 2 mm. long and the leaf blades rounded at base and minutely strigillose distinguish T. strigillosa. T. floridana and T. micrantha, the other two species of the peninsula, have ovate equal sepals about 1 mm. long, leaf blades cordate or subcordate at base, and under surface of leaf with spreading pubescence.

PHYLLANTHUS ANTILLANUS (Adr. Jussieu) Lundell. Arg. var. HYPO-

MALACUS (Standl.) Lundell, comb. nov.

Phyllanthus nobilis (L. f.) Muell. Arg. var. hypomelacus Standl., Carnegie Inst. Wash. Publ. 461: 68. 1935.

HIPPOCRATEA AUSTIN-SMITHII Lundell, sp. nov.

Frutex scandens; ramuli subteretes, patentes, hornotini viridescentes, glabri; folia glabra, membranacea, utrinque viridia, petiolata, petiolo supra sulcato, 4--8 mm. longo, gracili; lamina lanceolata, 6--10.5 cm. longa, 2--3.8 cm. lata, apice acuminata, acumine obtusiusculo, basi cuneata, subintegra, venis lateralibus, utroque latere 4--6, utrinque conspicue prominulo-reticulata; cymae axillares, glabrae, pauciflorae, 1.5--2.5 cm. longae (pedunculo incluso), pedicellis ultimis usque ad 2 mm. longis; flores ad 5 mm. lati; calyx stipitatus; sepala 5, depresso-ovata vel rotundata, ciliolata, usque ad 0.7 mm. longa; petala 5, late ovato-elliptica, ca. 2 mm. longa, glabra, subintegra; discus carnosus, annularis vel subcupularis; stamina 3; carpodia desunt. -- COSTA RICA: Province Alajuela, Canton San Carlos, Villa Guesada, alt. 850 m., in rain forest, a woody vine climbing 5 m., Feb. 28, 1939, Austin Smith H-1725 (type in the University of Michigan Herbarium).

HIPPOCRATEA LANCIFOLIA Lundell, sp. nov.

Frutex alte scandens, ramulis glabris, strorubris, novellis quadrangularibus; folia glabra, petiolata, petiolo 2.5--3.5 mm. longo, canaliculato; lamina subcoriacea, lanceolata vel anguste elliptico-oblonga, 3.5--7.3 cm. longa, 1.7--3.3 cm. lata, apice obtuse acuminata vel obtusa, basi acutiuscula, repanda, venis lateralibus utroque latere 4--6, venulis remote reticulatis; infructescentiae glabrae; carpodia 3, complanata, ovata vel elliptica, 3--4.8 cm. longa, 2--2.5 cm. lata, apice late obtusa, basi rotundata, crasse coriacea, nervosa. -- BRITISH HONDURAS: Stann Creek District, Sittes River, along river bank in shade, March 20, 1930, W. A. Schipp 715 (type in the University of Michigan Herbarium). -- The ovate or elliptic strongly veined capsules and the small subcoriaceous openly reticulated leaves characterize H. lancifolia, a relative of H. celastroides H.B.K.

DOLIOCARPUS CORIACEUS (Mart. & Zucc.) Gilg.

Pinzona coriacea Mart. & Zucc. -- BRITISH HONDURAS: Stann Creek District, Middlesex, a woody vine in high ridge on hillside, July 2, 1939, Percy H. Gentle 2892, fruits. -- Apparently this species has been known previously only from equatorial Brazil.

EUGENIA COCQUERICOTENSIS Lundell, Bull. Torrey Bot. Club 64: 554. 1937.

BRITISH HONDURAS: El Cayo District, on hill top opposite Vaca, a tree 8 in. diam., flowers white, April 30, 1938, Percy H. Gentle 2533; vernacular name "female boy Job". -- From the type (Lundell 4090) in the University of Michigan Herbarium, this collection differs slightly in having pedicels up to 2.5 mm. long and somewhat larger, less conspicuously veined leaves.

EUGENIA GENTLEI Lundell, Carnegie Inst. Wash. Publ. 478: 216. 1937.

BRITISH HONDURAS: Belize District, one mile north of Gracie Rock on the Sibun River, in pine ridge, Sept. 21, 1936, Hugh O'Neill 8761. Stann Creek District, Melinda Pine Ridge, in pine lands, a small tree, flowers white, Jan. 25, 1937, Percy H. Gentle 1887. -- From these additional collections the original description is amplified as follows:

Flowers sessile, solitary or geminate, borne on older branchlets; calyx glabrous, limb 4-lobed, the lobes oblong or ovate-oblong, 2 to 3.5 mm. long, rounded, ciliate, sparsely and rather finely glandular-punctate; petals obovate, 5 to 7 mm. long, 4 to 4.5 mm. wide, rounded, long-ciliate, glabrous otherwise; stamens numerous; style glabrous; ovary 2-celled; mature fruits unknown.

ASPIDOSPERMA MATUDAI Lundell, sp. nov.

Arbor 20-metralis, 60 cm. diam.; ramulis parce lepidotis; folia alterna, firme membranacea, glabra, longe petiolata, petiolo 3--3.8 cm. longo; lamina oblonga, 12--17.5 cm. longa, 4--6 cm. lata, apice acuta vel obtusa, raro acuminata, basi late cuneata, utrinque prominenter costata, multivenosa; inflorescentiae 5.5--10 cm. longae (pedunculo incluso), longe pedunculatae, pedunculis lepidotis, ramulis et pedicellis adpresse albi-tomentulosis; pedicellis 3 mm. longis vel minoribus; calyx albi-tomentulosus, lobis lanceolatis, ca. 2.6 mm. longis; corolla ca. 7 mm. longa, extus glabra, tubo urceolato, ca. 4 mm. longo, intus sub apice puberulo, lobis subulatis, ca. 3 mm. longis; ovarium glabrum. -- MEXICO: Chiapas, Escuintla, January, 1938, Eizi Matuda 2030 (type in the University of Michigan Herbarium); vernacular name "chichi". -- A. Matudai differs notably from the other Mexican and Central American species in its large thin leaves with remarkably long slender petioles. It appears to be related closely to A. cruentum Woodson, which is known only from fruiting material.

MARKEA CAMPANULATA (Donn. Sm.) Lundell, comb. nov.

Merinthopodium campanulatum Donn. Sm., Bot. Gaz. 47: 257. 1909.

MARKEA INTERNEXA (Blake) Lundell, comb. nov.

Merinthopodium internexum Blake, Contrib. Gray Herb. 52: 85. 1917.

MARKEA UNIFLORA Lundell, sp. nov.

Frutex scandens; ramulis angulatis, rugulosis, hirsutis, crassiusculis; folia alterna, petiolata, petiolo sulcato, 3--15 mm. longo; lamina chartacea vel subcoriacea, obovata vel elliptica, 4--13 cm. longa, 1.7--6.8 cm. lata, apice obtusiuscula vel abrupte breviterque subacuminata, basi obtusiuscula in petiolum attenuata, integerrima, subconcolor, supra glabra, subtus parce hirsuta, venis lateralibus 5--8-jugis, supra impressis, subtus prominentibus; flores solitarii; pedicelli graciles, parce hirsuti, 4.5--7 cm. longi; sepala 5, ovato-lanceolata, 3.7--4.2 cm. longa, basi usque ad 1.8 cm. lata, obscure trinervia, glabra; corolla usque ad 7.5 cm. longa, parte tubiformi ca. 2 cm. longa, parte campaniformi ca. 3.5 cm. longa, lobis 5, ovatis, ca. 2 cm. longis, rotundatis; filamenta ad basin villosa; antherae exsertae, ca. 1.4 cm. longae; stylus ca. 6 cm. longus; ovarium triloculare, multiovulatum, glabrum. -- MEXICO: Chiapas, Volcan de Tacana, alt. 2800 m., March 27, 1939, Eizi Matuda 2816 (type in the University of Michigan Herbarium). -- M. uniflora is a close relative of M. campanulata (Donn. Sm.) Lundell, a poorly known species described from incomplete material. The flowers of M. uniflora, solitary and apparently terminal, are considerably smaller than those described for M. campanulata.

(a) Papers from the Herbarium of the University of Michigan.

FOUR CENTRAL AMERICAN MELASTOMES

H. A. Gleason

CENTRADENIA GRANDIFOLIA var. BREVISEPALA Gleason, var. nov.

Folia basi uno latere anguste cuneata altero late cuneata, secus venas albo-vittata. Sepala breviter truncata margine minute ciliata.

Type, Stuart 15, collected at Finca Pansamala, Dept. Al-taverapaz, Guatemala, in the herbarium of the University of Michigan. In the typical element of the species, the sepals are ovate-triangular and 1.5--2 mm. long.